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# Daffodil International University

Department of Agricultural Science
Faculty of Agriculture Sciences
B.Sc. in Agricultural Science
Midterm Examination-Fall 2026

**Course Code:** 0813-2103 **Course Title:** Soil Science-I (Introductory Soil Science)
**Level and Term:** L2, T1 **Section:** 253 (A, B & C) **Course Teacher Initials:** IHJ & DMI
**Time:** 1 Hour 30 Minutes **Total Marks:** 25

***Splitting any answer is strictly prohibited***

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|---|---|---|---|---|
| 1. | a) | Define soil and soil science. | (PLO1, CLO1, C1) | 2 |
| | b) | Enlist the major components of soil and briefly describe the components. | (PLO1, CLO1, C4) | 3 |
| 2. | a) | Classify sedimentary rocks on the basis of nature of chief agents of transportation. | (PLO1, CLO1, C2) | 2 |
| | b) | Illustrate the rock cycle with a neat, labelled schematic diagram. | (PLO1, CLO1, C2) | 3 |
| 3. | a) | Define soil temperature with its importance. | (PLO1, CLO2, C1) | 2 |
| | b) | Write briefly the factors affecting soil temperature. | (PLO2, CLO2, C3) | 3 |
| 4. | a) | Enlist the name of 12 textural classes of soil. | (PLO1, CLO2, C1) | 2 |
| | b) | Illustrate genesis of soil structure with significance. | (PLO4, CLO2, C3) | 3 |
| 5. | a) | Develop a concept that shows the differences between particle and bulk density. | (PLO1, CLO2, C4) | 2 |
| | b) | "P.D. = 2B.D. when porosity value is 50%" – explain with its importance. | (PLO2, CLO2, C3) | 3 |